

Number lines? What ARE they good for?

A. Warm-up:

1. 25% of 104 is the same as 10% of this number. What is this number?
2. This percent of 45 is the same as 15% of 90. What is this percent?
3. If 15% of a number is 60, what is 35% of the number?
4. 20% of 75 less 20% of 15 is the same as 20% of this number. What is this number?
5. 20% of 75 plus 20% of 15 is the same as 20% of this number. What is this number?

B. Illustrative Mathematics:

Angel and Jayden were at track practice. The track is $\frac{2}{5}$ kilometers around.

Angel ran 1 lap in 2 minutes.

Jayden ran 3 laps in 5 minutes.

- a. How many minutes does it take Angel to run one kilometer? What about Jayden?
- b. How far does Angel run in one minute? What about Jayden?
- c. Who is running faster? Explain your reasoning.

C. Young Mathematicians at Work, Constructing Algebra:

MT is a bullfrog. He is world famous for his long jump. Every time he jumps he travels exactly the same distance. When he takes 4 jumps and 8 frog steps, it is the same as taking 52 frog steps.

- a. How many frog steps are in 2 jumps and 4 frog steps?
- b. How many frog steps are in each of MTs jumps?

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